

### ABSTRACT

Techniques are disclosed for automatically synthesizing information from a plurality of computer-readable integrated circuit package models. In one embodiment, each of the plurality of package models contains information descriptive of a distinct package. Such information may include, for example, intra-package path lengths and/or propagation delays of signal nets in the modeled packages. Techniques are disclosed for automatically synthesizing such information to produce, for example, aggregate path lengths and/or propagation delays of the signal nets across all of the modeled packages. Such synthesis may be performed even when the package models use mutually inconsistent signal net naming conventions and the modeled packages are composed of different materials. Techniques are also disclosed for providing information to the package designer to assist the package designer in improving the design of the package models.